

Erratum: Quantum gravitational corrections for spinning particles

Markus B. Fröb

*Department of Mathematics, University of York,
Heslington, York, YO10 5DD, U.K.*

E-mail: mbf503@york.ac.uk

ERRATUM TO: [JHEP10\(2016\)051](#)

ARXIV EPRINT: [1607.03129](#)

A mistake has been made in evaluating the stress tensor for a spinning particle at rest, resulting in a missing factor of $1/2$ for the vector contributions. Therefore, the spin vector \mathbf{S} and its components S_j should be replaced by $\mathbf{S}/2$ (respectively $S_j/2$) in equations (2.55b), (2.56b), (2.57b), (2.59b), (2.60), (2.62), (2.64c), (4.1c), (4.2c), (4.3c), (4.5c), (4.6c) and (5.3). Comparing the classical result with the linearised Kerr metric, its angular momentum J should thus be identified with $J = |\mathbf{S}|$.

Since this is only an overall factor, the small- and large-distance expansions as well as the plots, which concern the ratio between classical and quantum contributions, are unaffected.

Open Access. This article is distributed under the terms of the Creative Commons Attribution License ([CC-BY 4.0](#)), which permits any use, distribution and reproduction in any medium, provided the original author(s) and source are credited.